

Human Granulocytic Anaplasmosis (HGA)

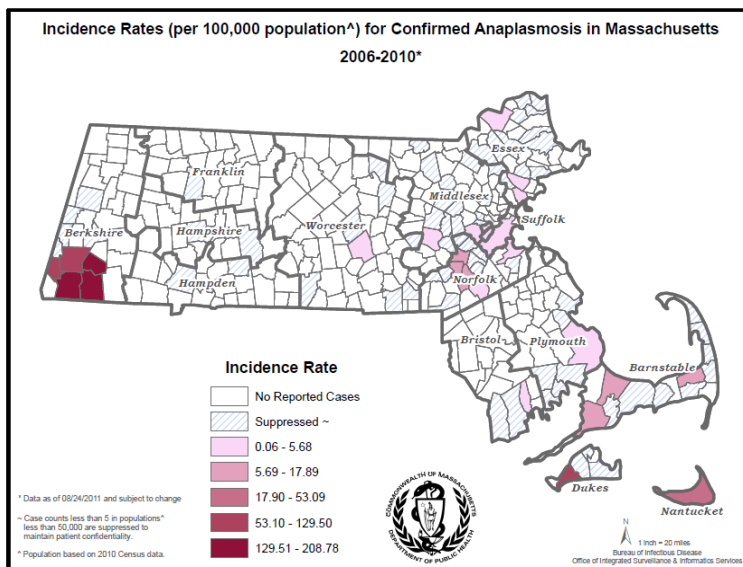
Surveillance in Massachusetts, 2010

Massachusetts Department of Public Health

2010 Surveillance Highlights

- 77 confirmed cases of HGA were reported in Massachusetts in 2010, representing a 26.3% increase from the number of cases reported in 2009.
- Regions with the highest incidence included southern Berkshire County, as well as Cape Cod and the Islands.
- The highest number of confirmed cases occurred in June and July. Only 43% of confirmed cases reported that they had a recent tick bite.
- The average age for a confirmed HGA case was 57 years, and 53% were male.
- 19% of confirmed cases were hospitalized. The average age for a confirmed case who was hospitalized was 71 years.
- The most common symptoms reported by confirmed cases included fever (100%), malaise (89%), and myalgia [muscle aches] (88%).

The map below illustrates HGA incidence rates per 100,000 by city and town of residence in Massachusetts from 2006-2010. Areas of highest incidence include southern Berkshire County, and Cape Cod and the Islands. There was an isolated area of high incidence in Norfolk County. No confirmed cases of HGA were reported from Franklin or Hampden Counties in 2010.



| County | 2010 Confirmed Cases (#) | 2010 Incidence Rate (per 100,000) |
|---------------------|--------------------------|-----------------------------------|
| Cape Cod & Islands* | 11 | 4.5 |
| Berkshire | 27 | 20.6 |
| Bristol | 1 | 0.2 |
| Essex | 5 | 0.7 |
| Franklin | 0 | 0 |
| Hampden | 0 | 0 |
| Hampshire | 1 | 0.6 |
| Middlesex | 8 | 0.5 |
| Norfolk | 12 | 1.8 |
| Plymouth | 4 | 0.8 |
| Suffolk | 1 | 0.1 |
| Worcester | 1 | 0.1 |
| State Total | 77** | 1.18 |

*Statistics for Barnstable, Dukes, and Nantucket counties are combined in accordance with confidentiality guidelines
 ** The county could not be identified for six confirmed case.

Figure 1.

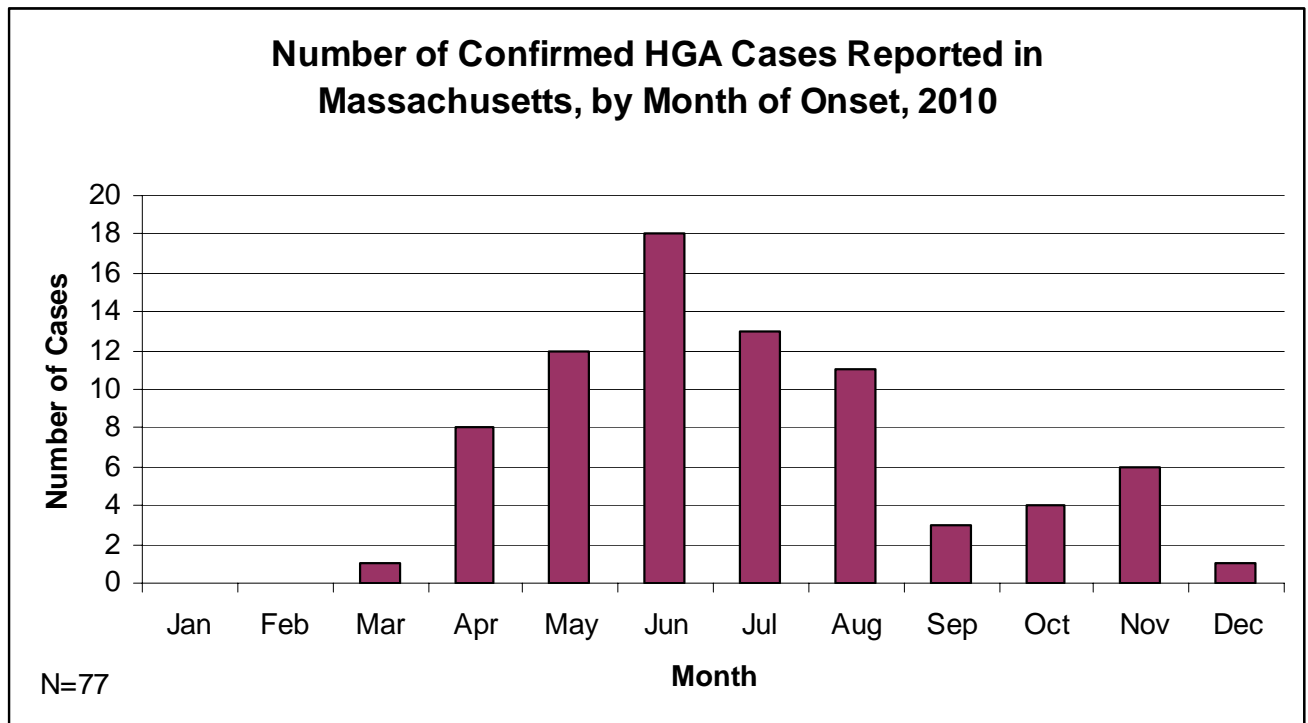


Figure 2.

